

OPTICAL PICKUP

INVENTOR: YAMAKAWA, AKIO
APPLICANT: SONY CORP
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ABSTRACT:

PURPOSE: To obtain an optical pickup with a limited number of parts by forming a hologram on a lens surface of a lens member.

CONSTITUTION: Output light of a laser diode 27 is focused on an optical disc 30 with a hologram forming surface 24b of a hololens 24. In addition, a part of reflected light from the optical disc 30 is divided in wave front with a hologram of the forming surface 24b to be led to the side of a photo detecting substrate 28. In this case, a part of a luminous flux moving toward the forming surface 24b from the diode 27 is also divided in wave front, but the luminous flux thus divided in wave front is reflected on the disc 30 in a direction differing from the hololens 24 little affecting a regeneration signal. Thus, the hololens 24 also serves as fixing member of an objective lens, a beam splitter and optical parts thereby enabling the building up of an optical type pickup with a limited number of parts.

